

HTN / STN COG LCD Display 1 / 64 Duty Driving Method Positive Model Small Size

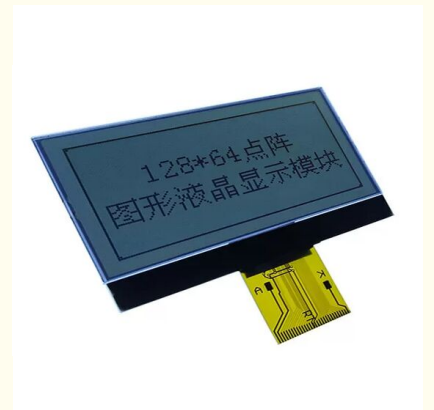
Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO9001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.78-7USD
- Packaging Details: CARTON
- Delivery Time: 3-4WEEKS
- Payment Terms: T/T
- Supply Ability: 300000/MONTH



Product Specification

- Application: Industrial, Medical, Consumer Electronics
- Bonding Mode: COG
- Display Type: COG (Chip-On-Glass)
- Driver Ic: S6B0724
- Display Color: Monochrome
- Connector: COG+FPC
- Highlight: HTN COG LCD display small size,
STN COG LCD positive model,
1/64 duty COG LCD display



Product Description

HTN / STN COG LCD Display 1 / 64 Duty Driving Method Positive Model Small Size

Product Details

Resolution:	128 X 64
Display Mode:	Transflective
Display Type:	STN Positive
Viewing Direction:	6 O'clock
Outline Size:	79.05 X 39.5 X 8.24 Mm
Viewing Size:	53.6 X 28.6

ITEM	CONTENT	DESCRIPTION
1	Display Model	positive
2	Display type	STN
3	Polarizer type	transflective
4	Viewing angle	6 o'clock
5	Driving Method	1/64 duty,1/9 bias
6	Interface	Parallel + BL
7	Backlight	LED backlight
8	Driver IC	S6B0724
9	Voltage	3.0V

What is COG LCD ?

This is an LCD technology where the controller chip used to drive the LCD is mounted directly onto the LCD glass.

Mounting the controller directly onto the LCD glass allows the module to be built without the need for a PCB. The three main components of a chip on glass is the glass, the controller driver chip, and the cable.

As a general rule the cost of a COG is less than that of a COB. Without being mounted to a circuit board, COG displays do not come equipped with mounting holes. Instead the COG display is mounted to the chassis if the manufacturer's product uses double-sided tape.

The HTN/STN COG LCD display is a liquid crystal display module that adopts the COG (Chip on Glass) manufacturing process. The 1/64 duty cycle driving method means it can achieve high-definition image display with lower power consumption. Here is an introduction about it:

Product Introduction

Process Features: It uses the COG process to directly integrate the driving chip onto the glass substrate, eliminating the need for bulky PCB boards and connection structures, achieving a thin and compact design, saving internal space, and providing greater freedom for equipment design.

Liquid Crystal Type: Both HTN (High Twisted Nematic) and STN (Super Twisted Nematic) belong to the TN technology variants. HTN slightly improves the contrast and viewing angle on the basis of TN, suitable for displaying numbers and a few letters; STN has better contrast and viewing angle through a larger twisting angle and compensation film design, suitable for displaying small text, graphic lines, and Chinese menus, etc.

Driving Method: 1/64 duty cycle driving method, combined with a suitable driving chip, such as ST7565R, ST7567, etc., can achieve high-definition image display with lower power consumption, suitable for devices with high power consumption requirements.

Display Mode: It is a positive display, where the display content is dark and the background is light, such as dark gray text on a yellow-green background, or white text on a black background. This display mode conforms to the reading habits of most people and has a more comfortable visual effect.

Size Specifications: Small size usually refers to the diagonal size of less than several inches. Common sizes include 2.8 inches, 1.3 inches, etc. The external dimensions are generally around several tens of millimeters, and the pixel resolution is mostly 128x64, etc.

Product Applications

Instrumentation: It can be used to display measurement data and status information of various instruments and meters, such as multimeters, thermometers, hygrometers, etc. Its clear display effect and low power consumption characteristics can meet the long-term operation requirements of instruments and meters.

Portable Medical Devices: Such as blood glucose meters, blood pressure monitors, blood oxygen meters, etc. The compact design of COG process is suitable for the space requirements of portable devices, and the positive display is convenient for medical staff and patients to read data.

Smart Wearable Devices: Such as smart watches, bracelets, etc. The small size and low power consumption characteristics are in line with the requirements of smart wearable devices, and can display time, steps, heart rate, etc.

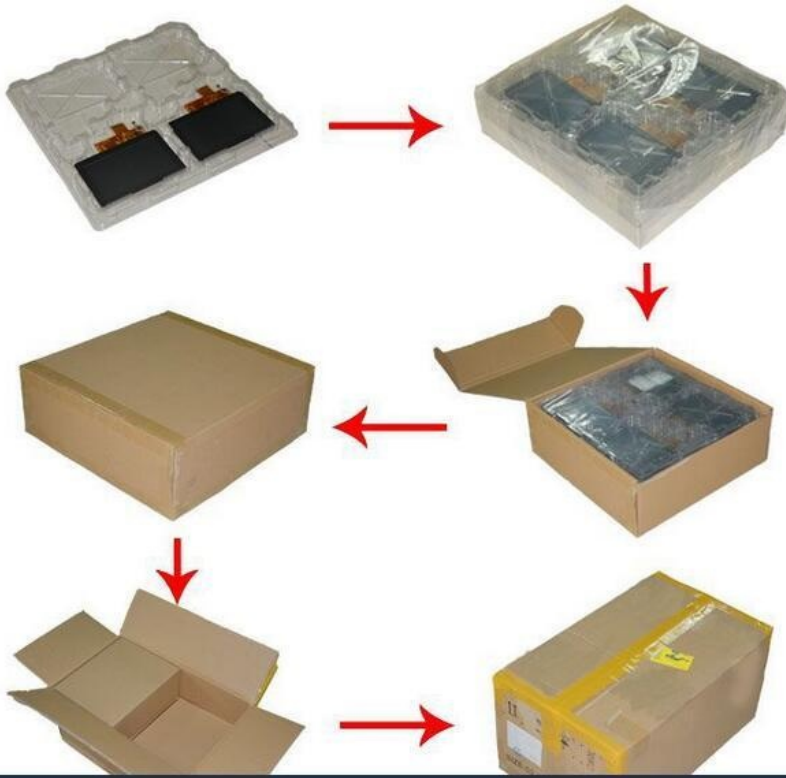
Industrial Control Panels: Used to display information such as the operation status and parameter settings of industrial equipment. Its stable performance and good visibility can adapt to the requirements of industrial environments.

New Energy Equipment: Such as solar inverters, wind power control systems, etc. HTN segment code LCD screens can be used to display key information such as the working status, output voltage, current, etc. of the equipment. Its high-temperature stability and excellent visibility make it widely applicable in the new energy field.



Packaging & Shipping:

Packaging: Carton boxes, Cupboard , EPE, Blister Tray, About the package way, it is up to the size of products, according to customer request and demand. Different countries have not same requirement..



Shipping: Express way as DHL,Fedex,EMS,UPS,air shipping,sea shipping,Any shipping method you prefer.

					
2-7days	2-8days	2-7days	3-15days	2-5days	2-7days
Notice	1. EMS for Brazil, Russia and Remote areas . 2. SF for Hong Kong, Taiwan, South Korea, Japan, Thailand, Singapore and Malaysia . 3. Having logo product can't be sent by FEDEX . 4. The Brazil want to use FEDEX/DHL , need to offer CNPJ / CPF to us !				

Payment Method:

			
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FAQ:

- 1. I want the LCD display 8 digits and the outline size is 65x30x2.8mm.....?**
 Answer: No problem. Firstly, please kindly send us your specification/ drawing paper
 If you have not the specification, you can also provide your samples; we will recommend the suitable one if it is standard products. Or we can customize for you based on your own requirement.
- 2.This LCD is just what we want, but it is big size, do you have any smaller size? And the display content need to be changed a little.**
 Answer: For the segment type LCD module, if you need modify the outline size or display content, a new LCD glass module is need. We have to open new tooling for you.
- 3. This LCD display is HTN type, but I want STN type,can you make?**
 Answer: That's all right . we can change for you as per you request.
- 4. I want customize a new LCD module. Can you do?**
 Answer: Yes, we can. Please send your drawing paper. If you have not, please advise me the outline size of the LCD display, display information(Glass thickness, Polarizer, Display Type, Connector mode, Storage Temp. Operating Temp. Supply Voltage, Viewing direction, drive condition), we can customize for you.
- 5. What is leading time for tooling?**
 Answer: General speaking, it will cost 15 to 25 days after drawing paper confirmation and tooling charge payment, we can report you the exact time when you confirm the drawing paper.
- 6. Can you send us samples for checking?**
 Answer: Yes,. Samples order is available.
- 7. What is the Leading Time?**
 Answer: If we have stock for the standard ones, the leading time is one day after payment. If it is the mass production for special ones, the leading time is about 15-30 days. suppose we can finish earlier, we will report the information in advanced.

CHARACTER / GRAPHIC TYPE LCD MODULES LIST:

Model	Content (W X H)	Module size W x H(mm)	View area W x H(mm)	Dot size W x H(mm)	Dot pitch W x H(mm)	Driving Method	Controller LSI or Equiv	IC Package	STN-TYPE	FSTN-TYPE
8D -C2004A	20X4	98.0X60.0	76.0X25.2	0.55X0.55	2.95X4.75	1/16	S6A0069	COB	Y	Y
8D -C2004B	20X4	77.0X47.0	60.0X22.0	0.42X0.46	2.3X4.03	1/16	S6A0070	COB	Y	Y
8D -C2004C	20X4	146.0X62.5	123.5X43.0	0.92X1.1	4.84X9.22	1/16	S6A0069	COB	Y	Y
8D -C2402A	24X2	118.0X36.0	93.5X16.0	0.6X0.65	3.2X5.55	1/16	S6A0069	COB	Y	Y
8D -C2402B	24X2	208.0X40.0	178.0X23.0	1.16X1.16	6.0X9.63	1/16	S6A0069	COB	Y	Y
8D -C4001A	40X1	182.0X33.5	154.4X16.5	0.6X0.75	3.2X6.35	1/16	S6A0069	COB	Y	Y
8D -C4002B	40X2	182.0X33.5	154.4X16.5	0.6X0.65	3.2X5.55	1/16	S6A0069	COB	Y	Y
8D -C4004A	40X4	190.0X54.0	147.0X29.5	0.5X0.55	2.78X4.89	1/16	S6A0069	COB	Y	Y
8D -G12232A	122X32	84.0X44.0	60.0X18.5	0.4X0.4	0.44X0.44	1/32	SED1520	COB	Y	Y
8D -G12232B	122X32	80.0X36.0	55.0X18.5	0.36X0.41	0.4X0.45	1/32	SED1520	COB	Y	Y
8D -G12232C	122X32	98.0X60.0	76.0X25.2	0.53X0.61	0.57X0.65	1/32	SED1520	COB	Y	Y
8D -G12232D	122X32	80.2X47.4	76.0X25.2	0.53X0.61	0.57X0.65	1/32	SED1520	COB	Y	Y
8D -G12864A	128X64	78.0X70.0	62.0X44.0	0.39X0.55	0.44X0.6	1/64	S6B0108A	COB	Y	Y
8D -G12864B	128X64	105.0X60.5	72.0X40.0	0.48X0.48	0.52X0.52	1/64	S6B0108A	COB	Y	Y
8D -G12864C	128X64	93.0X70.0	72.0X40.0	0.48X0.48	0.52X0.52	1/64	S6B0108A	COB	Y	Y
8D -G12864D	128X64	113.0X65.0	72.0X40.0	0.48X0.48	0.52X0.52	1/64	S6B0108A	COB	Y	Y
8D -G12864E	128X64	93.0X70.0	72.0X40.0	0.48X0.48	0.52X0.52	1/64	ST7920	COB	Y	Y
8D -G19264A	192X64	130X65.0	104.0X39.0	0.46X0.46	0.51X0.51	1/64	S6B0108A	COB	Y	Y
8D -G19264B	192X64	120X62.0	104.0X39.0	0.46X0.46	0.51X0.51	1/64	S6B0108A	COB	Y	Y
8D -G24064B	240X64	180.0X65.0	132.0X39.0	0.53X0.53	0.49X0.49	1/64	T6963C	QFP/COB	Y	Y
8D -G240128A	240X128	144X104	114X64	0.4X0.4	0.45X0.45	1/128	T6963C	QFP/COB	Y	Y

Small lcd display screen List:

Model	Content CharsXLines	Module size W x H(mm)	View area W x H(mm)	Dot size W x H(mm)	Character size W x H(mm)	Driving Method	Controller LSI or Equiv	IC Package	STN-TYPE	FSTN-TYPE
8D-C0802A	8X2	84.0X44.0	63.0X25.0	1.15X1.36	6.07X11.56	1/16	S6A0069	COB	Y	Y
8D-C0802B	8X2	58.0X32.0	38.0X16.0	0.56X0.66	2.95X5.56	1/16	S6A0069	COB	Y	Y
8D-C1202A	12X2	55.7X32.0	46.7X17.5	0.45X0.6	2.65X5.5	1/16	S6A0069	COB	Y	Y
8D-C1601A	16X1	80.0X36.0	64.5X13.8	0.55X0.65	3.2X5.95	1/16	S6A0069	COB	Y	Y
8D-C1601B	16X1	122.0X33.0	99.0X13.0	0.92X1.1	4.84X8.06	1/16	S6A0069	COB	Y	Y
8D -C1601C	16X1	80.0X36.0	64.5X13.8	0.6X0.7	3.2X8.2	1/11	S6A0069	COB	Y	Y
8D -C1601D	16X1	85.0X28.0	65.0X16.0	0.55X0.75	3.07X6.56	1/16	S6A0069	COB	Y	Y
8D -C1601E	16X1	80.0X36.0	64.5X13.8	0.55X0.75	3.07X6.56	1/16	S6A0069	COB	Y	Y
8D -C1602A	16X2	80.0X36.0	64.5X13.8	0.55X0.5	2.95X4.35	1/16	S6A0069	COB	Y	Y
8D -C1602B	16X2	122.0X44.0	99.0X24.0	0.92X1.1	4.84X9.66	1/16	S6A0069	COB	Y	Y
8D -C1602C	16X2	80.0X36.0	64.5X15.5	0.55X0.66	2.96X5.56	1/16	S6A0069	COB	Y	Y
8D -C1602D	16X2	84.0X44.0	64.5X15.5	0.55X0.66	2.96X5.56	1/16	S6A0069	COB	Y	Y
8D -C1602E	16X2	85.0X36.0	64.5X15.5	0.56X0.66	2.96X5.56	1/16	S6A0069	COB	Y	Y
8D -C1602F	16X2	72.0X36.0	64.5X15.5	0.56X0.66	2.96X5.56	1/16	S6A0069	COB	Y	Y
8D -C1604A	16X4	87.0X60.0	62.0X25.6	0.55X0.55	2.95X4.75	1/16	S6A0069	COB	Y	Y
8D -C2001A	20X1	116.0X37.0	83.0X18.6	0.6X0.65	3.2X5.55	1/16	S6A0069	COB	Y	Y
8D -C2002A	20X2	98.0X60.0	83.0X18.6	0.6X0.65	3.2X5.55	1/16	S6A0069	COB	Y	Y
8D -C2002B	20X2	116.0X37.0	83.0X18.6	0.6X0.65	3.2X5.55	1/16	S6A0069	COB	Y	Y
8D -C200C	20X2	146.0X43.0	123.0X23.0	0.92X1.1	0.98X1.17	1/16	S6A0069	COB	Y	Y



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